

LEAD TESTING IN SCHOOL AND CHILD CARE PROGRAM DRINKING WATER GRANT

FY2020 Grant Program

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WORK PLAN FOR THE STATE OF MICHIGAN

June 2020

SUMMARY STATEMENT

The State of Michigan Department of Environment, Great Lakes and Energy (EGLE) is committed to addressing lead in drinking water in our schools and child care facilities, and to the overall reduction of childhood lead exposure across our state. In 2016, EGLE began a statewide school drinking water program encouraging schools and child care facilities on community water supplies to engage in the investigation and risk reduction of lead in school building drinking water. In 2017, EGLE created a partnership with the Michigan Department of Education (MDE) using a one-time appropriation for school water testing, and in 2019, incorporated a model water training program to conduct plumbing assessments, lead sampling plans, and educate school administrators on sample collection and elevated lead result mitigation. EGLE intends to continue these efforts as the *Healthy Water Healthy Kids Program* (Program).

With the funding appropriated under Section 1464(d) of the Safe Drinking Water Act (SDWA), amended by the Water Infrastructure Improvements for the Nation Act (WIIN), Section 2107, EGLE plans to enhance the Program and encourage eligible schools and child care facilities to participate in drinking water lead testing. This will include the prioritization of facilities serving younger children (ages 6 and under), underserved and low-income communities, and facilities that are more likely to contain lead plumbing.

EGLE is using the Environmental Protection Agency's (EPA's) 3Ts guidance as a model to: (1) Communicate, throughout the implementation of the program, the results and important lead information to the public, parents, teachers, and larger community; (2) Train on the risks of lead in drinking water and testing for lead, as well as developing key partnerships to support the program; (3) Test using appropriate testing protocols and a certified laboratory; and (4) Take Action, including the development of a plan for responding to results of testing conducted and addressing potential elevated lead where necessary.

SCOPE OF WORK

This section is a discussion of EGLE's plan to develop and implement the additional FY2020 Voluntary Lead Testing in School and Child Care program funding allocation of \$680,000 in conjunction with the *Healthy Water Healthy Kids* Program for schools and child care facilities and the FY2019 Voluntary Lead Testing in School and Child Care Program Drinking Water WIIN Grant. The intent of the work is to bring the programs together to meet goals as they relate to the reduction of lead in drinking water exposure in children.

The scope of work contained in this project description includes the following categories and information:

- I. STATE GOALS AND PRIORITIES
- II. PROGRAM IMPLEMENTATION AND ACTIVITIES
- III. ROLES AND RESPONSIBILITIES
- IV. TIMELINE AND MILESTONES
- V. WIIN PROGRAMMATIC PRIORITIES AND EPA'S STRATEGIC PLAN LINKAGE
- VI. ANTICIPATED OUTPUTS/OUTCOMES
- VII. BUDGET NARRATIVE

I. STATE GOALS AND PRIORITIES:

Michigan has approximately 1,520,000 students enrolled in a total of 896 public school districts, and approximately 8,753 child care facilities with a total child capacity of 363,252. EGLE has identified goals and priorities consistent with the priorities outlined in EPA's State Lead Testing in School and Child Care Program Drinking Water Grant Implementation Document (found here: www.epa.gov/safewater/grants).

In accordance with the America's Waters Infrastructure Act (AWIA) of 2018, which amended the SDWA section 1464(d), EGLE will assist in voluntary testing for lead contamination in drinking water at schools and child care facilities that are in low-income areas. This is described based upon the affordability criteria established by the State under SDWA section 1452(d)(3), and may include child care facilities in socially vulnerable areas with elevated blood lead levels, schools with at least 50 percent of the children receiving free and reduced lunch, and Head Start facilities, for example.

Other priorities may include elementary and child care programs that primarily care for children 6 years and under, older facilities that are more likely to contain lead plumbing (e.g. facilities built before the lead ban of 1988), and established and sustainable child care programs without factors indicating that the building may not be serving as a child care facility in the future.

It is EGLE's goal to reduce lead exposure at these facilities by testing for lead, identifying potential lead sources, and taking action. Using the priorities listed above, this testing effort includes the goals of:

- a. Testing outlets used for consumption at vulnerable child care facilities based on blood lead levels and the social vulnerability index by the end of the project period.
- b. Testing of outlets used for consumption at eligible schools based on high risk buildings, vulnerable age groups, and economically disadvantaged (free/reduced meal programs) by the end of the project period.
- c. Providing education about lead and the importance of testing to schools and childcare facilities.
- d. Provide test result interpretation and guidance for school and child care facilities.
- e. Provide mitigation and communication guidance for school and child care facilities with elevated lead levels.
- f. Follow up testing to check remediation efforts or for further investigation.

II. PROGRAM IMPLEMENTATION AND ACTIVITIES:

EGLE is utilizing EPA's 3Ts guidance (3Ts) (www.epa.gov/safewater/3ts) to implement the Program. This includes efforts to (1) Communicate, throughout the implementation of the Program, the results and important lead information to the public, parents, teachers, and larger community; (2) Train on the risks of lead in drinking water and testing for lead, as well as developing key partnerships to support the program; (3) Test using appropriate testing protocols and a certified laboratory; and (4) Take Action, including the development of a plan for responding to results of testing conducted and addressing potential elevated lead, where necessary. Below are specific activities included in these key elements:

1. Communication: EGLE will establish key partnerships to support the program as well as keeping the public informed (see more on partnerships in Appendix A). EGLE recognizes that timely dissemination of communication materials is of the utmost importance. Therefore, information about the sampling program and lead in drinking water will be shared before the lead in drinking water sampling program begins, after obtaining the results of testing, when/if corrective measures are decided upon (and in the event no corrective measures are appropriate because the lead levels are low), and in response to periodic interest in the Program. Specifically:

- Notifications will occur at least 30 days prior to testing at that facility. Sampling may occur sooner than 30 days if the facility is on an action level exceedance community.
- Testing results will be shared with the school or child care community as soon as possible, but no later than four weeks following the receipt of the results.

- A public notice shall be provided to parents, guardians, and staff within two weeks of the school or child care facility receiving the results. The public notice will inform the community that sample results are available in the administration office, and, to the extent practicable, on the internet website of the school or child care facility for inspection by the public.
- Provide ongoing Program information and updates accessible by the public on the EGLE website (www.michigan.gov/schoolwater).

EGLE will be using a variety of methods to communicate and be transparent throughout this program with the goal of reaching the target audiences, including letters/fliers, presentations, email, websites (www.michigan.gov/schoolwater and www.michigan.gov/mileadsafe), and potential press releases. In addition, schools and child care facilities will make available, in the administrative offices and on their public website, if applicable, a copy of the results of any voluntary testing.

The targeted audiences EGLE has identified include, the school or child care community (e.g. parents, teachers, and staff), local health organizations, and the drinking water community (e.g. utilities serving these facilities).

- 2. Training:** Training will include education and training on the risks of lead in drinking water and testing for lead to the child care/school that is impacted by testing, as well as key partnerships to support the program (see more on partnerships in Appendix A). EGLE will continue to post resources and materials on its website for access by the public at www.michigan.gov/schoolwater and www.michigan.gov/mileadsafe.

EGLE will be working with the Michigan Department of Health and Human Services (MDHHS), and a third-party contractor, TriMedia Environmental and Engineering, LLC (TriMedia), to reach stakeholders and disseminate information. TriMedia is under contract with the Healthy Water Healthy Kids contract to conduct plumbing assessments, develop lead water sampling plans, and provide sample training at schools (public and nonpublic schools registered with MDE). Funding for the third-party contractor comes from MDE and is separate from this grant, however, this TriMedia service can be used for schools eligible for testing under the WIIN grant up to September 30, 2020 when the contract ends. EGLE has secured a separate contract with TriMedia to continue plumbing assessment work under the WIIN grant starting in October of 2020.

EGLE will also be developing key partnerships to support the program and help train staff. These are detailed in Appendix A.

- 3. Testing:** EGLE is utilizing EPA's 3Ts guidance 2-step sampling protocol, as described at https://www.epa.gov/sites/production/files/2018-09/documents/module_5_3ts_2-step_sampling_protocol_508.pdf, with

modification to include sequential sampling at child care facilities and schools with a lead service line. A first draw and 30-second flush sample will be collected at each tap used for consumption in the same sampling event to reduce costs. Outlets not being tested will be encouraged to be labeled as “not for drinking water.” This may include utility sinks and certain bathroom sinks.

A plumbing assessment and sample plan development will be completed prior to sampling. MDHHS will conduct plumbing assessments and develop sampling plans at residential child care facilities. TriMedia will conduct plumbing assessments and develop sampling plans at schools and child care centers. TriMedia will be reimbursed for conducting plumbing assessments at school buildings through the Healthy Water Healthy Kids program until the funds run out or the contract ends on September 30, 2020, whichever comes first.

MDHHS staff will conduct all sampling activities. MDHHS will collect initial and 30-second flush samples at schools and will collect an initial along with consecutive samples to the service line at child care facilities. Local health department staff may be used to assist MDHHS staff, if needed.

The EGLE State of Michigan drinking water laboratory, which is certified to test lead in drinking water, will be used to process and analyze samples collected under this Program. MDHHS staff will deliver all samples to the laboratory.

EGLE anticipates meeting the following goals utilizing both FY2018/19 and FY2020 funds (see Facility Testing Goal Table on following page for specifics):

- Testing 400 of the top ten percent most vulnerable child care facilities.
- Testing 200 vulnerable schools.
- Testing up to 2000 second round samples post remediation efforts.
- Testing at as many additional schools and child care facilities as funds and time allow.

All sampling efforts under this program will be properly coded and recorded using the coding system and recordkeeping recommendations identified in EPA’s 3Ts guidance.

Facility Testing Goal Table:

Grant Year	Quarter	Goal
18/19	2020_3	30
18/19	2020_4	40
18/19	2021_1	50
18/19	2021_2	50
18/19	2021_3	50
2020	2021_4	60
2020	2022_1	60
2020	2022_2	50
2020	2022_3	50
2020	2022_4	50
2020	2023_1	50
2020	2023_2	40
2020	2023_3	20
Total Facility Testing Goal:		600

- 4. Taking Action:** EGLE has developed a plan for responding to results of testing conducted and addressing potential elevated lead, where necessary. Responses to results will follow remediation recommendations in the EPA's 3Ts guidance. The Program includes recommended action at sample sites with results above 5 parts per billion. This plan also includes the sampling post-remediation to ensure efforts to reduce lead levels were effective.

Resources are currently available for schools and child care facilities connected to the Flint water system and the SDWA 1464(d) grant funding will not be used for these facilities. Resources are available through the Lead Safe Home Daycare (LSHD) pilot program MDHHS is administering. If the resident is a grant qualified licensed child care facility, LSHD funding will take priority and SDWA 1464(d) grant funding will not be used. SDWA 1464(d) grant funding will be used to supplement and enhance existing Healthy Water Healthy Kids initiative resources.

Prioritization for SDWA 1464(d) grant funding will be for qualifying facilities not included in the Flint or LSHD funding with the intent on sample collection at facilities with no or little sample history.

III. ROLES AND RESPONSIBILITIES:

A list of roles and responsibilities are listed below, and potential project partners are identified in Appendix A.

Program Manager: This person will act as the point of contact for the Program, and help coordinate school communication efforts, plumbing	Holly Gohlke EGLE 2100 West M-32 Gaylord, MI 49735
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assessments, development of sampling plans, remediation guidance as necessary, lead efforts to create, maintain and update Program documentation, and will also engage with other Program points of contact and external resources and partners as appropriate.	GohlkeH@Michigan.gov
Child Care Facilities Contact: This person will help coordinate child care facility plumbing assessments, development of sampling plans, and sampling schedules.	Aaron Cooch MDHHS 333 S. Grand Ave. Lansing, Michigan 48933 CoochA@Michigan.gov
Public Communications Team: Communicate lead education, exposure risks, and lead reduction actions to the public. The public consists of, but is not limited to, the school or child care community, local health organizations, and the drinking water community.	EGLE staff, MDHHS staff
Website Contact: This person will make sure the EGLE websites (www.michigan.gov/schoolwater) stay up to date with the latest information.	EGLE staff
Sampling Team: The samplers are responsible for ensuring that field activities are conducted in accordance with the EPA's 3Ts guidance and the laboratory for the analysis of samples per USEPA drinking water methods.	State of Michigan Drinking Water Laboratory (for the analysis of samples) MDHHS Drinking Water and Investigation Unit Local Health Department Environmental Health Sanitarians
Third Party Contractor The contractor will conduct plumbing assessment, sample plan development, and sample training to public, registered nonpublic schools and child care centers located within a school building that are deemed eligible for the grant upon request from the Program Manager. Funding for this contractor for school assessments is provided by MDE ending September 30, 2020 (or until funding runs out). With funding from the WIIN grant, the contractor will conduct the assessments at child care centers in commercial buildings up to October 1, 2020 and then at all schools and child	TriMedia Environmental & Engineering Services, LLC

care centers from October 1, 2020 to the end of this grant period.	
Residential Child Care Plumbing Assessment Team These staff will conduct plumbing assessment and sample plan development at child care facilities located in homes that are deemed eligible for the grant.	MDHHS Contractual Staff

IV. TIMELINE AND MILESTONES:

A detailed timeline for the FY2018/2019 and FY2020 grants, including milestones for specific tasks, can be found below. The FY2020 grant work begins the fourth quarter in 2021.

- **FY2019 Quarter 4:**
 - Begin assembling program team.
 - Develop and publish resources and information on EGLE webpage.
 - Receive funding from federal award agency.
 - Conduct school/child care public communication and important information about lead in drinking water.
 - Develop Quality Assurance Project Plan (QAPP).
 - Begin identification of top priority facilities using social vulnerability indexes and blood lead level data.
 - Post the request for third-party contractor proposal.
- **FY2020 Quarter 1:**
 - Complete development of collaboration agreement (Memorandum of Understanding) with MDHHS.
 - Finalize the QAPP.
 - Finalize the third-party contract.
 - Develop program forms and templates.
 - Begin work on data collection tools and database
 - Continue to develop and publish resources and information on EGLE webpage.
- **FY2020 Quarter 2:**
 - Invite high priority child care facilities to participate in lead sampling.
 - Continue identification of next priority level facilities.
 - Continue work on data collection tools and database
 - Continue to publish resources and information on EGLE webpage.

- Collect facility information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for first round of volunteering facilities.
- Support facilities in community outreach.
- **FY2020 Quarter 3:**
 - Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue work on data collection tools and database
 - Continue to publish resources and information on EGLE webpage.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Begin initial sampling at participating facilities identified by the priorities with a goal of 30 facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.
 - Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2020 Quarter 4:**
 - Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Evaluate and modify data collection tools and database as needed.
 - Continue to publish resources and information on EGLE webpage.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Continue sampling at facilities identified by the priorities with a goal of 40 facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.

- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

EGLE expects to have utilized the FY2018/19 grant by sampling 35 percent of the 200 high priority child care facilities by this point.

- **FY2021 Quarter 1:**

- Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
- Continue notification and communication to facilities who volunteer to participate.
- Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
- Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
- Share result of testing as soon as possible, but no later than four weeks after receipt of results.
- Provide remediation guidance to facilities where elevated lead levels are identified.
- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

- **FY2021 Quarter 2:**

- Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
- Continue notification and communication to facilities who volunteer to participate.
- Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
- Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
- Share result of testing as soon as possible, but no later than four weeks after receipt of results.
- Provide remediation guidance to facilities where elevated lead levels are identified.

- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2021 Quarter 3 (end of FY2018/19 grant period):**
 - Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.
 - Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

EGLE expects to have utilized the FY2018/19 grant by sampling 37 percent of the 600 high priority facilities by this point.

- **FY2021 Quarter 4 (FY2020 grant takes over):**
 - Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Continue sampling at facilities identified by the priorities with a goal of 60 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.

- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

- **FY2022 Quarter 1**

- Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
- Continue notification and communication to facilities who volunteer to participate.
- Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
- Continue sampling at facilities identified by the priorities with a goal of 60 additional facilities sampled.
- Share result of testing as soon as possible, but no later than four weeks after receipt of results.
- Provide remediation guidance to facilities where elevated lead levels are identified.
- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

- **FY2022 Quarter 2**

- Invite next priority level facilities to participate and follow-up with invited facilities that have not responded.
- Continue notification and communication to facilities who volunteer to participate.
- Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
- Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
- Share result of testing as soon as possible, but no later than four weeks after receipt of results.
- Provide remediation guidance to facilities where elevated lead levels are identified.
- Support facilities in community outreach.
- Conduct follow-up sampling as needed.

- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2022 Quarter 3**
 - Follow-up with invited facilities that have not responded. Invite additional facilities as needed.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.
 - Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).

EGLE expects to have sampled 73 percent of the 600 high priority child care centers and schools by this point utilizing the FY2020 grant.

- **FY2022 Quarter 4**
 - Follow-up with invited facilities that have not responded. Invite additional facilities as needed.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue the collection of information (e.g. past sampling activities, records, building construction, building layouts), conduct plumbing assessments, and develop sample plans for participating facilities.
 - Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.

- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2023 Quarter 1**
 - Follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue sampling at facilities identified by the priorities with a goal of 50 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.
 - Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2023 Quarter 2**
 - Follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue sampling at facilities identified by the priorities with a goal of 40 additional facilities sampled.
 - Share result of testing as soon as possible, but no later than four weeks after receipt of results.
 - Provide remediation guidance to facilities where elevated lead levels are identified.
 - Support facilities in community outreach.
 - Conduct follow-up sampling as needed.
 - Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- **FY2023 Quarter 3**
 - Follow-up with invited facilities that have not responded.
 - Continue notification and communication to facilities who volunteer to participate.
 - Continue sampling at facilities identified by the priorities with a goal of 20 additional facilities sampled.

- Share result of testing as soon as possible, but no later than four weeks after receipt of results.
- Provide remediation guidance to facilities where elevated lead levels are identified.
- Support facilities in community outreach.
- Conduct follow-up sampling as needed.
- Inform sub awardees on routine practices (i.e. flushing) that can improve water quality (especially as some facilities close and open for summer months or extended periods of building closure).
- Finalize program.

EGLE expects to have sampled 100 percent of the 600 targeted high priority child care facilities and schools by this point utilizing the remainder of the FY2020 grant.

V. WIIN PROGRAMMATIC PRIORITIES AND EPA'S STRATEGIC PLAN:

The principal objective of the assistance to be awarded under this program is to provide grants to states to help local education agencies to test schools and child care facilities for lead contamination in drinking water, utilizing EPA's 3Ts guidance or applicable state regulations or guidance that are not less stringent. The objective of the Program is to: (1) Reduce children's exposure to lead in drinking water; (2) Help states target funding toward schools and child care programs unable to pay for testing; (3) Utilize the EPA's 3Ts model, or model no less stringent, to establish best practices for a lead in drinking water prevention program; (4) Foster sustainable partnerships at the state and local level to allow for more efficient use of existing resources, and exchange of information among experts in various educational and health sectors; and (5) Enhance community, parent, and teacher cooperation and trust.

The activities described in this workplan support the WIIN Programmatic Priorities and EPA's FY 2018-22 Strategic Plan, Goal 1, "Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety," Objective 1.2, "Provide for Clean and Safe Drinking Water: Ensure waters are clean through improved water infrastructure and, in partnership with states and tribes, sustainably manage programs to support drinking water, aquatic ecosystems, and recreational, economic, and subsistence activities."

VI. ANTICIPATED OUTPUTS/OUTCOMES:

Outputs and outcomes expected to be achieved under the agreement are described below.

Outputs for this project include: (1) Use the EPA's 3Ts for Reducing Lead in Drinking Water guidance to implement the state Program; (2) Development of a state lead testing in drinking water in schools and child care facilities management strategy that supports a robust training, monitoring, and maintenance plan which protects children from lead exposure, now and in the future; (3) Prioritization of testing to target vulnerable

communities and populations: schools and child care programs in underserved and/or low-income communities; elementary and child care programs that primarily care for children 6 years and under; and older facilities that are more likely to contain lead plumbing; (4) Providing results of any voluntary testing for lead contamination in school and child care facility drinking water carried out using grant funds, and notifying parents, teachers, and organizations of the availability of the results; (5) Utilizing the information received from this program for potential future testing actions and legislation; and (6) Establishment of routine practices, such as those outlined in the EPA's 3Ts guidance.

Outputs also include the establishment of a Memorandum of Understanding (MOU) with MDHHS and the State of Michigan drinking water laboratory to implement this Program.

Outcomes for this project include: (1) Schools or child care programs, unable to pay for testing, implementing a testing program and mitigating lead exposure by utilizing the EPA's 3Ts toolkit in determining best action to take for remediation; (2) The reduction of children's exposure to lead in drinking water; (3) Improvement of staff and community knowledge on lead in drinking water and other environmental harms; and (5) Water quality improvement and lead exposure reduction in drinking water; and (6) Establishment of routine practices such as those outlined in the EPA's 3Ts guidance.

Other outcomes include: (1) Fostering sustainable partnerships at the state and local level to allow for a more efficient use of resources, and the exchange of information among experts in various areas of school, child care, utility, and health sectors; and (2) The enhancement of community, parent, and teacher trust.

VII. BUDGET NARRATIVE:

Budget Detail:

	FY2019	FY2020
Personnel:	\$15,896	\$92,991
Project Manager (Holly Gohlke) - 2525 hours @ \$40.76/hour - \$102,919	\$15,896	\$87,023
Data Collection Tools/Development staff - 160 hours @ \$37.30/hour - \$5,968		\$5,966
Fringe Benefits:	\$12,781	\$75,095
Retirement: FICA and Retirement: averaged at 58% of salaries - \$63,155	\$9,220	\$53,935
Insurance: averaged at 20% of salaries - \$21,777	\$3,179	\$18,598
Terminal Leave Allocation: 1.3% of Salary and Fringe* - \$2,617	\$382	\$2,235
*allocates costs to federal grants for final leave pay-offs upon retirement or termination		
Supplies:		\$4,645
Office Supplies (paper, pens, file folders, labels, envelopes, printer, printer cartridges) - \$1,745		\$1,745
iPad for collecting data in the field - \$750		\$750
Card stock rack cards (2000 @ \$0.15) - \$300		\$300

Post cards (1000 @ \$0.10) - \$100				\$100
Magnets (1000 @ \$0.15) - \$150				\$150
Program notification letter and supporting document printing (3000 @ \$0.20) - \$600				\$600
Postage (1000 @\$0.65) - \$650				\$650
Postage for postcards (1000 @ \$0.35) - \$350				\$350
Contractual:				\$584,500
Plumbing assessment & sample plan - Engineer & Sanitarian plus mobilization and demobilization for 400 site assessments - \$584,500				
Type	# of Units	Est. Cost/unit	Total cost	\$584,500
School	200	\$1461.25	\$292,250	
Child care center	200	\$1461.25	\$292,250	
Total	400		\$584,500	
				FY2019 FY2020
Other:				\$573,296 \$488,012
DTMB IT Allocation at 5% of Personnel and Fringe Benefits: \$9,817				\$1,434 \$8,388
Telecommunication charges (iPad service for 24 months @ \$65/month): \$1,560				\$1,560
Pass-through to MDHHS: \$1,049,926				\$571,862 \$478,064
Salaries and Wages: \$ 12,015				\$7,854 \$4,161
(1) MDHHS Coordinator (Aaron Cooch) - 300 hours				
Fringe Benefits: \$9,356				\$6,116 \$3,240
(1) MDHHS Coordinator (Aaron Cooch)				
Travel: \$137,112				\$91,408 \$45,704
Mileage - 150-mile round trip, 2 trips/week, 78 weeks, 8 people @ \$0.17/mile - \$31,824				\$21,216 \$10,608
State of Michigan car rental for sampling @ \$15.00 daily (\$17/car for 10 days/month for 8 people for 18 months) - \$24,480				\$16,320 \$8,160
Hotel for sampling @ \$85.00 per night, one night per week, for 8 people for 78 weeks - \$53,040				\$35,360 \$17,680
Meal: Breakfast - \$8.50/meal, 2 meals/week for 8 people for 78 weeks - \$10,608				\$7,072 \$3,536
Meal: Lunch - \$8.50/meal, 1 meal /week for 8 people for 78 weeks - \$5,304				\$3,536 \$1,768
Meal: Dinner - \$19/meal, 1 meal/week for 8 people for 78 weeks - \$11,856				\$7,904 \$3,952
Supplies: \$1,224				\$632 \$592
Gloves - \$1,024				\$512 \$512
Rubber bands - \$200				\$120 \$80
Contractual: \$890,219				\$465,852 \$424,367
Local health department for sampling - 150 locations @ \$500 each - \$75,000				\$50,000 \$25,000
Plumbing assessment & sample plan - Engineer & Sanitarian plus mobilization and demobilization for 200 site assessments - \$239,219				
Type	# of Units	Est. Cost/unit	Total cost	\$83,500 \$155,719
Residential child care	200	\$1,196.09	\$239,219	

Lab analysis lead - \$18/sample, 30,000 samples - \$540,000	\$324,000	\$216,000
Lead resampling analysis - \$18/sample, 2000 samples - \$36,000	\$8,352	\$27,648
Total Direct:	\$1,186,473	\$660,416
Indirect:	\$3,519	\$20,584
FY2020 rate of 12.27% of Personnel and Fringe Benefits		
Total Grant:	\$1,189,992	\$681,000

Budget Narrative Note 1. The budget is based on a goal of collecting 30,000 samples. It is anticipated that local health department staff may be needed to help MDHHS collect samples at 150 locations.

Budget Narrative Note 2. MDHHS will be conducting plumbing assessments at residential child care facilities. The third-party contractor will be used to conduct plumbing assessments in child care centers, public and registered nonpublic school buildings.

Budget Expense Assumptions:

Expenses	Units pricing	Units per staff	Number of Staff	Total
Gloves	\$64	2	8	\$1024
Cars	\$170	18	8	\$24,480
Mileage	\$0.17	23,400	8	\$31,824
Rubber band	\$3.57	7	8	\$200
Meals breakfast	\$8.50	156	8	\$10,608
Meals lunch	\$8.50	78	8	\$5,304
Meals dinner	\$19	78	8	\$11,856
Hotel	\$85	78	8	\$53,040
Lab sampling lead	\$18	30,000	1	\$540,000
Plumbing assessment (Child care centers & schools)	\$1,461.25	400	1	\$584,500
Plumbing assessment (residential child care facilities)	\$1,196.09	200	1	\$239,219
Local health department for sampling	\$500	150	1	\$57,000
Lead resampling	\$18	2000	1	\$36,000

APPENDIX A: PARTNERS UNDER THIS PROGRAM:

Below are partners that will be involved in this program.

- Michigan Department of Health and Human Services, Lead Investigation Unit
- Michigan Department of Education
- State of Michigan Laboratory

Additional Partners will include:

- Local Health Departments
- Water Utilities
- School Principals/Directors
- Michigan School Business Officials